



SEQUENCE LISTING



(1) GENERAL INFORMATION:

- (i) APPLICANTS: BLASCHUK, Orest W.
GOUR, Barbara J.
- (ii) TITLE OF INVENTION: COMPOUNDS AND METHODS FOR REGULATING
CELL ADHESION
- (iii) NUMBER OF SEQUENCES: 31
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Seed IP Law Group PLLC
 - (B) STREET: 701 Fifth Avenue, Suite 5400
 - (C) CITY: Seattle
 - (D) STATE: Washington
 - (E) COUNTRY: USA
 - (F) ZIP: 98104
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 10/648,854
 - (B) FILING DATE: 25-AUG-03
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Jeffrey E. Hundley
 - (B) REGISTRATION NUMBER: 42,676
 - (C) REFERENCE/DOCKET NUMBER: 100086.402C2
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 - (A) TELEPHONE: (206) 622-4900
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(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Asp Xaa Asn Asp Asn

1 5

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Leu Asp Arg Glu
1

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 108 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Asp	Trp	Val	Ile	Pro	Pro	Ile	Asn	Leu	Pro	Glu	Asn	Ser	Arg	Gly	Pro
1															15
Phe	Pro	Gln	Glu	Leu	Val	Arg	Ile	Arg	Ser	Asp	Arg	Asp	Lys	Asn	Leu
															30
Ser	Leu	Arg	Tyr	Ser	Val	Thr	Gly	Pro	Gly	Ala	Asp	Gln	Pro	Pro	Thr
															45
Gly	Ile	Phe	Ile	Leu	Asn	Pro	Ile	Ser	Gly	Gln	Leu	Ser	Val	Thr	Lys
															60
Pro	Leu	Asp	Arg	Glu	Gln	Ile	Ala	Arg	Phe	His	Leu	Arg	Ala	His	Ala
															80
Val	Asp	Ile	Asn	Gly	Asn	Gln	Val	Glu	Asn	Pro	Ile	Asp	Ile	Val	Ile
															95
Asn	Val	Ile	Asp	Met	Asn	Asp	Asn	Arg	Pro	Glu	Phe				
															105

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Asp	Trp	Val	Ile	Pro	Pro	Ile	Asn	Leu	Pro	Glu	Asn	Ser	Arg	Gly	Pro
1				5					10					15	
Phe	Pro	Gln	Glu	Leu	Val	Arg	Ile	Arg	Ser	Asp	Arg	Asp	Lys	Asn	Leu
				20				25					30		
Ser	Leu	Arg	Tyr	Ser	Val	Thr	Gly	Pro	Gly	Ala	Asp	Gln	Pro	Pro	Thr
				35				40				45			
Gly	Ile	Phe	Ile	Ile	Asn	Pro	Ile	Ser	Gly	Gln	Leu	Ser	Val	Thr	Lys
				50				55			60				
Pro	Leu	Asp	Arg	Glu	Leu	Ile	Ala	Arg	Phe	His	Leu	Arg	Ala	His	Ala
				65			70			75			80		
Val	Asp	Ile	Asn	Gly	Asn	Gln	Val	Glu	Asn	Pro	Ile	Asp	Ile	Val	Ile
				85				90					95		
Asn	Val	Ile	Asp	Met	Asn	Asp	Asn	Arg	Pro	Glu	Phe				
				100				105							

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 108 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Asp	Trp	Val	Ile	Pro	Pro	Ile	Asn	Leu	Pro	Glu	Asn	Ser	Arg	Gly	Pro
1				5					10					15	
Phe	Pro	Gln	Glu	Leu	Val	Arg	Ile	Arg	Ser	Asp	Arg	Asp	Lys	Asn	Leu
				20				25					30		
Ser	Leu	Arg	Tyr	Ser	Val	Thr	Gly	Pro	Gly	Ala	Asp	Gln	Pro	Pro	Thr
				35				40				45			
Gly	Ile	Phe	Ile	Ile	Asn	Pro	Ile	Ser	Gly	Gln	Leu	Ser	Val	Thr	Lys
				50				55			60				

Pro	Leu	Asp	Arg	Glu	Leu	Ile	Ala	Arg	Phe	His	Leu	Arg	Ala	His	Ala
65					70					75				80	
Val	Asp	Ile	Asn	Gly	Asn	Gln	Val	Glu	Asn	Pro	Ile	Asp	Ile	Val	Ile
					85			90					95		
Asn	Val	Ile	Asp	Met	Asn	Asp	Asn	Arg	Pro	Glu	Phe				
				100				105							

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 108 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Asp	Trp	Val	Val	Ala	Pro	Ile	Ser	Val	Pro	Glu	Asn	Gly	Lys	Gly	Pro
1					5				10				15		
Phe	Pro	Gln	Arg	Leu	Asn	Gln	Leu	Lys	Ser	Asn	Lys	Asp	Arg	Asp	Thr
				20				25				30			
Lys	Ile	Phe	Tyr	Ser	Ile	Thr	Gly	Pro	Gly	Ala	Asp	Ser	Pro	Pro	Glu
				35			40				45				
Gly	Val	Phe	Ala	Val	Glu	Lys	Glu	Thr	Gly	Trp	Leu	Leu	Leu	Asn	Lys
				50			55				60				
Pro	Leu	Asp	Arg	Glu	Glu	Ile	Ala	Lys	Tyr	Glu	Leu	Phe	Gly	His	Ala
65					70				75				80		
Val	Ser	Glu	Asn	Gly	Ala	Ser	Val	Glu	Asp	Pro	Met	Asn	Ile	Ser	Ile
				85				90				95			
Ile	Val	Thr	Asp	Gln	Asn	Asp	His	Lys	Pro	Lys	Phe				
				100				105							

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 108 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 108 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Asp	Trp	Val	Ile	Pro	Pro	Ile	Ser	Cys	Pro	Glu	Asn	Glu	Lys	Gly	Glu
1									10					15	
Phe	Pro	Lys	Asn	Leu	Val	Gln	Ile	Lys	Ser	Asn	Arg	Asp	Lys	Glu	Thr
				20				25					30		
Lys	Val	Phe	Tyr	Ser	Ile	Thr	Gly	Gln	Gly	Ala	Asp	Lys	Pro	Pro	Val
	35					40						45			
Gly	Val	Phe	Ile	Ile	Glu	Arg	Glu	Thr	Gly	Trp	Leu	Lys	Val	Thr	Gln
	50				55				60						
Pro	Leu	Asp	Arg	Glu	Ala	Ile	Ala	Lys	Tyr	Ile	Leu	Tyr	Ser	His	Ala
65		70						75					80		
Val	Ser	Ser	Asn	Gly	Glu	Ala	Val	Glu	Asp	Pro	Met	Glu	Ile	Val	Ile
			85					90				95			
Thr	Val	Thr	Asp	Gln	Asn	Asp	Asn	Arg	Pro	Glu	Phe				
			100				105								

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 6 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

His	Ala	Val	His	Ala	Val
1				5	

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 13 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Ser His Ala Val Ser His Ala Val Ser His Ala Val Ser
1 5 10

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Tyr Ile Gly Ser Arg
1 5

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
1 5 10

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Ile	Trp	Lys	His	Lys	Gly	Arg	Asp	Val	Ile	Leu	Lys	Lys	Asp	Val	Arg
1				5					10					15	
Phe															

(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 47 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Gly	Val	Asn	Pro	Tyr	Ala	Gln	Ser	Ser	Gly	Ser	Leu	Tyr	Gly	Ser	Gln
1				5					10				15		
Ile															
Tyr															
Ala															
Leu															
Cys															
Asn															
Gln															
Phe															
Tyr															
Thr															
Pro															
Ala															
Ala															
Thr															
Gly															
Leu															
Tyr															
His															
Tyr															
Cys															
Val															
Val															
Asp															
Pro															
Gln															

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Gln	Ser	Ser	Gly	Ser	Leu	Tyr	Gly	Ser	Gln
1				5				10	

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Gln Tyr Leu Tyr His Tyr Cys Val Val Asp
1 5 10

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= "Residue may be acetylated"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10
- (D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Leu Tyr Ser His Ala Val Ser Ser Asn Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= "Residue may be acetylated"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10
- (D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Leu Phe Ser His Ala Val Ser Ser Asn Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS:
(D) TOPOLOGY: linear

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 1
(D) OTHER INFORMATION: /note= "Residue may be acetylated"

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 10
(D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Leu Phe Gly His Ala Val Ser Glu Asn Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS:
(D) TOPOLOGY: linear

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 1
(D) OTHER INFORMATION: /note= "Residue may be acetylated"

- (ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 10
(D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Leu Arg Ala His Ala Val Asp Ile Asn Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /note= "Residue may be acetylated"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 10
 - (D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Leu Arg Ala His Ala Val Asp Val Asn Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /note= "Residue may be acetylated"
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 10
 - (D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

Met Arg Ala His Ala Val Asp Ile Asn Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:

(D) TOPOLOGY: linear

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= "Residue may be acetylated"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 16
- (D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

His Leu Gly Ala His Ala Val Asp Ile Asn Gly Asn Gln Val Glu Thr
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= "Residue may be acetylated"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 15
- (D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Phe His Leu Arg Ala His Ala Val Asp Ile Asn Gly Asn Gln Val
1 5 10 15

(2) INFORMATION FOR SEQ ID NO:26:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

Gly His Ala Val Ser Glu
1 5

(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= "Residue may be acetylated"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

Ala His Ala Val Ser Glu
1 5

(2) INFORMATION FOR SEQ ID NO:28:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= "Residue may be acetylated"

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 6
- (D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Ala His Ala Val Asp Ile
1 5

(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 6 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS:
(D) TOPOLOGY: linear

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 1
(D) OTHER INFORMATION: /note= "Residue may be acetylated"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 6
(D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

Ser His Ala Val Ser Ser
1 5

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS:
(D) TOPOLOGY: linear

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 1
(D) OTHER INFORMATION: /note= "Residue may be acetylated"

(ix) FEATURE:
(A) NAME/KEY: Modified-site
(B) LOCATION: 10
(D) OTHER INFORMATION: /note= "Residue may be amidated"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

Leu Arg Ala His Gly Val Asp Ile Asn Gly
1 5 10

(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 48 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS:
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

Gly Val Asn Pro Thr Ala Gln Ser Ser Gly Ser Leu Tyr Gly Ser Gln
1 5 10 15

Ile Tyr Ala Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala Thr Gly Leu
20 25 30

Tyr Val Asp Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
35 40 45